



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of ROBERT A. ROUSSEAU

Serial No.: 09/892,340

Confirmation No.: 3554

Filed: June 27, 2001

For: IMPLANTABLE PROSTHETIC

**MESH SYSTEM** 

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

STATE OF NEW JERSEY)

SS:

COUNTY OF SOMERSET)

Group Art Unit: 3738

Examiner: Crystal M. Gilpin

I hereby certify that this correspondence and/or fee is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on Nov. 14, 2003 (Date of Deposit)

ne M. Dobrock 4/14/03

RECEIVED

NOV 2 0 2003

**TECHNOLOGY CENTER R3700** 

## AFFIDAVIT OF ROBERT A. ROUSSEAU UNDER 37 CFR §1.131

Sir:

- I, ROBERT A. ROUSSEAU, being duly sworn, deposes and says:
- 1. I am the sole inventor of all claims of the patent application identified above and the inventor of the subject matter described and claimed therein.
- 2. I received a Bachelor of Science in Mechanical Engineering from the University of Vermont in 1988, and, from about June, 1997 to the present day, I have been employed at Ethicon, Inc. (hereinafter "Ethicon") of Somerville, New Jersey, currently as a principal engineer.

- 3. Since about the year 1998, I have been working in the field of hernia mesh device, having been granted approximately six (6) U.S. patents relating to this field.
- 4. Prior to July 25, 2000, the filing date of U.S. Patent No. 6,610,006 to Amid et al., I had completed my invention as described and claimed in the subject application in the United States, as evidenced by the following:
- 5. In the course of my employment at Ethicon, I was asked by Dr. Edward Dormier, my supervisor at Ethicon, to develop a hernia mesh system that can be deployed easily at a hernia site.
- 6. Further to completing the foregoing task, I conceptualized a solution and expressed various embodiments of this conceptual device in a disclosure, as shown in Exhibit A, attached hereto.
- 7. Consistent with company practices pertaining to the development of intellectual property by employees, I requested Mr. Jerome Fischer, my co-worker, to review the disclosure shown in Exhibit A with me.
- 8. I explained the invention shown and described in Exhibit A to Mr. Fischer in terms of its structure, operation and function, and he indicated to me that he understood all the embodiments of the invention shown in Exhibit A. I then requested Mr. Fischer to sign and date the disclosure shown as Exhibit A, which he did. I likewise signed and dated the disclosure.
- 9. Consistent with company practices for developing products, I sought to prepare prototypes of the hernia mesh device shown in Exhibit A.

- 10. I directed Mr. Andrew Janetos (President of J-Pac, LLC, an external manufacturing supplier subject to a non-disclosure agreement with Ethicon) to prepare prototypes of the invention depicted in Exhibit A.
- 11. In response to my directions, Mr. Janetos undertook to make the requested prototypes in the manner described in the present patent application. The prototypes are attached hereto as Exhibit B.
- 12. I examined the completed prototypes prepared by Mr. Janetos. Based upon my inspection, it appeared that the prototypes conformed to the design shown in Exhibit A and that they would inherently perform their intended function. Based upon my experience and knowledge in the hernia mesh device field, the ridges formed in the prototypes have a rigidity that is not greater than the rigidity of the rest of the prototypes.
- 13. The prototypes described above were supplied to Dr. Arthur Gilbert, a consulting surgeon under secrecy agreements with Ethicon, for his qualitative review. Dr. Gilbert manipulated the prototypes and passed them through a synthetic hernia model to replicate their anticipated use. Dr. Gilbert was able to bend the prototypes and observe their propensity to return to their original, substantially flat shape from their bent or collapsed shape. Dr. Gilbert was also able to compress the raised ridges formed in the prototypes and observe that they did not interfere with the mesh sheets' ability to conform to a planar shape.
- 14. All of the events described above in paragraphs 5 through 13 were completed prior to July 25, 2000.

15. My patent application identified in the caption on the first page of this Affidavit discloses and claims the invention depicted in Exhibit A attached hereto, which such invention was reduced to practice by the preparation of a working prototype as set forth above. In particular, I note that independent Claims 1 and 16 of my application is directed to my invention which is shown in Exhibit A.

16. Affiant is competent to testify to the matters stated herein.

Robert A. Rousseau

Notary Public

ROBERT J. TANNHAUSER Notary Public Of New Jersey My Commission Expires 10/18/2004



4,8.	EXI	HIBITA .	· :	
. »			الإنابية	
TITLE PROLENE HERNIAS	SYSTEM - STIFF LINDERLAY	DATE		9449 59
DUDDOSE DOCHMENT T	DEAS FURSTIFFENING C	INDERLAY PATCH	NO.	244373
				en Ria Manager Ether
A NEGO TO STIFF	EN THE PHS UNDSUM	INDIT COME ME	ECHANISM TO	FACILITATE
AND BR. GILBER	T - EDGALLY, THEY HTEH BRREADING / DO	PLACE AFTER 3	ANIENTIN A	NTO THE
HERMIA CITE T	THE CONCERN BOUT &	icipity # THA	TEFTIS	Tes RICIA,
THE PATIENT MAY	HAUS DISCONFORT. SE	envoluy the Del	a lorre year	Feit 9175/0141
MESHEL WITH FT	Freder, semi ficial St.	Frenny elevent co	apied octo	ad cotofile
ر العزيميليس بالمسم	<u></u>			
True Total Age	ELLUSTRATED, BOTH FRY	JE THOLMOFARM	LA THE FLATE	WO FRING PATEU
TO HAVE GEOMETE	LIES WHICH RESIST BEMO	INCLUHIUS MAINT	ACTION THE PLE	IN'S DERLINAL
Maisim 1	FURMED FINHERS ON UP	OFMAY PATEL		
•	1			
		REVISIONS	3	
C SEAL PER J-PAC	<u> </u>	SCRIPTION	ECN/DAR#	BY/APP DATE
. NO. 98008	. EXPERIMENTAL REV.	1	<del> </del>	
$\Lambda$				
	1 1		1 1	
THE DATE ON MAC 2Y		SECTION A-A		
EAL PATTERN MAG.2X		•	270 <u>18¶\$</u> 8	
, \			·	
	^-		-	0.025
46", TYP		s.om <u>.</u>	0.320	
		i U 🔝		Fal.\_
			1,773±0.640	
		191	T	
		1 1 1		3,000
		1.905±0.640		
		Y		1
- 5.0X	00±0.640 -	ા હતા. જે જેવા. ઉદ્યા કહેતા	•	\ W /L
	— t0.000±0.040		<b>MO</b>	000
• .	. ALL DIAD	KSICH IN CENTIMETERS		
UNLESS OTHERWISE DIMENSIONS ARE I	AND THE RESERVE AND THE PARTY OF THE PARTY O		LHICC	
FRACTIONAL ±1/64	ANOUGH WITHOUT WRITTEN APPROVAL OF E	THEOREMS.	Johnson + John	
.300 ± .01 .3000 ± .005 \$U	REACE FINISH OWN	DATE		Charles Colored
.XXXX ± .0005 CHAMFER ± 20°	SIN RAR	DATE EXP. PI	ROLENE HER	NIA DEVICE 2
MATERIAL		DWG NO.		REV
HARDNESS	00115			SHT 1 of 1
PLICATION	NTS - Sale			3 1 OF 1
EXPERIMENTER //			DATE 4	73 24 5 PM 19 PM
EAFERINGEN EN	XX (IV)	1 - 10 F 10 E 1 48 Y		. 全国的
WITNESSED BY	R		DATE	e dares in

**2443**- .74

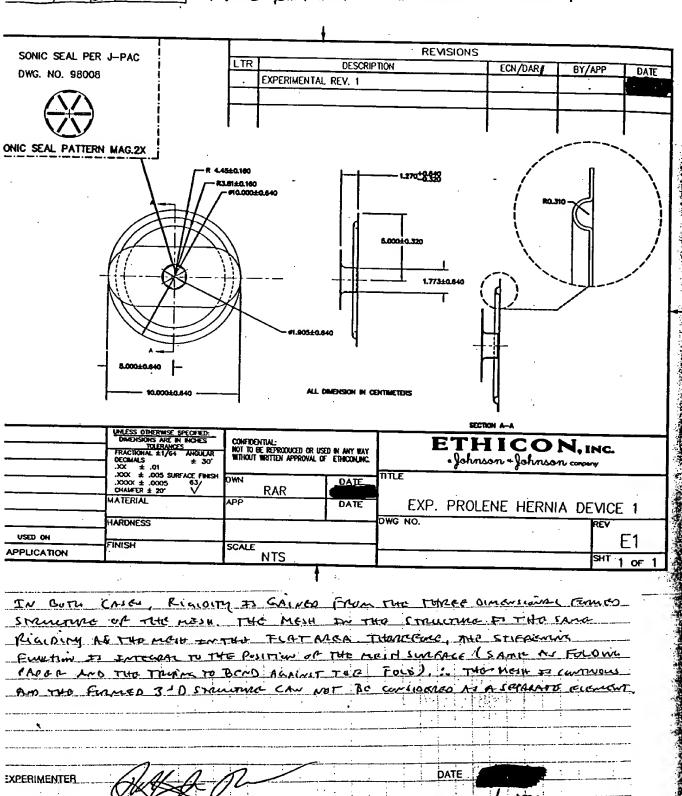
NITNESSED BY

وروايي والمواج

on in the state of

PURPOSE Cant From 2443-73

TOCA/GUBODIMENT & 2 | FULLED PING AROUND CIRCUMFORENCE OF WOOMAN



DATE

-7/15

with the second of the second

4 time

1 . 22.3

1000年的

استيما فيشريه وشهائي المحيجة ومنا